

# JIM PAMPLONA

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## EDUCATION

Embry-Riddle Aeronautical University  
**Bachelor of Science in Software Engineering, Minor in Psychology**  
Embry-Riddle Aeronautical University  
**Master of Science in Software Engineering, Accelerated Program**

Expected Graduation: **Spring 2025**  
GPA: **3.81**  
Expected Graduation: **Spring 2026**

## SKILLS

### Programming/Scripting Languages:

Java, Python, C++, C, Dart, MATLAB, HTML/CSS, JavaScript, Node.js, Express.js, React.js, MySQL, SQLite, MongoDB, PL/SQL, Next.js, Tailwind CSS, TypeScript

### Tools/Software:

GitHub, VS Code, JetBrains IDEs, Eclipse, Microsoft Office, Adobe Creative Cloud (Photoshop, Illustrator, Premiere Pro, Lightroom), CATIA, Figma

### Concepts:

Agile/Scrum Methodologies, Git, Object-Oriented Programming, Assembly/Low-level programming, Microprocessor debugging/programming, Data Structures & Algorithms, Full-stack development, Photography, Videography, Graphic Design, Database, UI/UX

## PROJECT EXPERIENCE

### Jirofolio: A Personal Portfolio Website

July 2024 – Ongoing

Lead Developer

- Developing a modern React personal portfolio utilizing Next.js, Tailwind CSS, and TypeScript, leveraging its route handling, styling capabilities, and type safety for an optimized and responsive user experience.
- Integrating third-party APIs using Python to showcase interactive features and real-time data visualization, such as a personal job board that scrapes job postings from external websites that is only available to authorized users.

### Visionary: A Photography Portfolio Website

Jan 2024 – May 2024

Lead Developer – 2-person Team

- Integrated MySQL into the MERN stack (replaced MongoDB to adhere to project requirements) to efficiently manage photography data, optimizing storage and retrieval processes while ensuring scalability and performance.
- Designed wireframes using Figma, applying UI/UX principles with a focus on responsive and modern design for a smooth experience.
- Utilized the ChakraUI React design system library to boost productivity and create a simple, modular, and visually consistent user interface.

### Society of Asian Scientists and Engineers Website

Aug 2023 – May 2024

Digital Relations Officer, Lead Developer

- Utilized the Express.js, ReactJS, and Node.js to develop an engaging and interactive website for a growing club of 100+ members, enhancing its online presence and member engagement.
- Deployed website on Cloudflare Pages, utilizing its Git integration capabilities for deployment and its robust security infrastructure.

### FitSage: A Home Workout and Nutrition Application

Jan 2023 – Jun 2023

Scrum Master, Lead developer – 4-person Team

- Developed front-end and back-end of an at-home fitness and nutrition app using Java, SQLite, and Flutter Framework on the AndroidOS platform, ensuring seamless communication, efficient data handling, and a user-friendly interface.
- Integrated Optical Character Recognition (OCR) to scan nutrition label data, enabling users to monitor calorie and macronutrient intake.
- Managed Agile/Scrum processes for effective project management and collaboration, resulting in the timely delivery of a feature-rich and user-friendly application to fellow peers in college.

## WORK EXPERIENCE

### IT Software Engineering Intern

May 2024 – Ongoing

GA Telesis, LLC

- Conducting research regarding optimization of aircraft parts sales AI-powered ERP integration and presenting to industry leaders.
- Leveraging Oracle PL/SQL to update databases in the Quantum Control ERP system and documenting scripts used within GitHub library.
- Developing JavaScript scripts to troubleshoot and resolve software issues, providing reliable solutions and reducing downtime of systems.
- Working with team to develop a dynamic report creation application on the Oracle APEX platform to optimize company operations.

### IT Lab Assistant

Jan 2023 - Ongoing

IT Services - Embry-Riddle Aeronautical University @ Daytona Beach

- Offering support 20 hrs/week to students, faculty, and staff by conducting computer hardware/software maintenance and troubleshooting.
- Maintaining cleanliness and readiness of computers for use while enforcing lab rules.
- Working closely with IT department whenever larger technological issues arise.

## LEADERSHIP

### President

May 2024 – Ongoing

Society of Asian Scientists and Engineers @ ERAU-DB

- Directing an executive board of 7 highly motivated students to provide professional and social opportunities to the Asian students of ERAU.
- Optimizing chapter operations by founding 4 new committees and delegating responsibilities to the leaders within our chapter.
- Leading an expansion of our chapter to offer members a Mentorship program, K-12 Outreach volunteering, and more professional development opportunities, fostering community growth as well as personal growth for our members.

### Digital Relations Officer

May 2023 – May 2024

Society of Asian Scientists and Engineers @ ERAU-DB

- Designed graphics and other media using Canva, Adobe Photoshop, and Adobe Illustrator, to market and reach 500+ followers on social media, essentially doubling the chapter's membership count and engagement.
- Led a team of 12 members on the media committee, ensuring a streamlined collaboration and productivity while also mentoring them on the principles of photography, videography, and graphic design.